

AMENDMENT UNDER 37 C.F.R. § 1.111
USSN: 09/883,357

IN THE CLAIMS:

Please enter the following amended claims:

1. A microscope for viewing samples in stereoscopic and in compound optical images in transmitted light brightfield and reflected light fluorescence, said microscope comprising:

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a stereo objective;

a compound objective;

an objective carrier with automatic shift carrying said stereo objective and said compound objective;

stereo microscope body that is shiftable about an axis to be placed properly over the stereo objective or the compound objective;

a transmitted light base for providing illumination for transmitted light brightfield for said stereo and compound objectives; and

an automated prism shift mechanism, disposed in an optical path, to create binocular images from a single axis compound image created.

Please add the following new claims:

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--2. An optical microscope system that permits three optical viewing techniques, said system comprising: means for viewing samples in one of three dimensions, two dimensions, and macro with reflected light fluorescence and transmitted light brightfield; and means for sorting said samples under stereo fluorescence illumination and for verifying detail of said samples under compound optic fluorescence illumination.

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3. The optical system as defined by claim 2, wherein said means for viewing comprises one stereoscopic and two compound objectives.

4. The optical system as defined by claim 3, further comprising a transmitted light base for providing illumination for transmitted light brightfield for said stereo and compound objectives.

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A19 5. The optical system as defined by claim 2, further comprising means, disposed in an optical path of the system, for creating binocular images from a single axis compound image created.

6. The optical system as defined by claim 3, further comprising a stereo microscope body that is shiftable about an axis in a position that is over the stereo objective or the compound objective. --

IN THE ABSTRACT:

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.

A20 A system that permits biological samples to be viewed in three optical ways, including in three dimension (stereoscopic), two dimension (compound optic), and macro with reflected light fluorescence. Each of three optical views can be carried out on one system. The system permits the user to sort samples under stereo fluorescence illumination and to verify structural detail

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under compound optic fluorescence illumination on one instrument. The three position rotating

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objective carrier with automatic shift houses one stereoscopic and two compound objectives. All objectives are parcenter and parfocal.
